This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A thin film transistor electronic switching device, comprising:

a source electrode and a drain electrode;

a semiconducting region in contact with and extending between the source and drain

electrodes;

a gate electrode disposed for influencing the transconductance of at least part of the

semiconducting region; and

an insulating region located between the source and drain electrodes and configured so

that the length of the shortest current path through the semiconducting region between the source

and drain electrodes is greater than 1.05 times the shortest physical distance between the source

and drain electrodes,

wherein the shortest current path through the semiconducting region lies closer to the

gate electrode than to all paths of the shortest physical distance between the source and drain

electrodes.

2. and 3. (cancelled).

4. (original): A device as claimed in claim 1, wherein the source and drain electrodes

comprise an inorganic metallic conductor.

5. (original): A device as claimed in claim 1, wherein the source and drain electrodes

comprise a conducting polymer.

6. (original): A device as claimed in claim 1, wherein the semiconducting region

comprises a solution processible conjugated polymeric or oligomeric material.

7. (original): A device as claimed in claim 1, wherein the semiconducting region

comprises a material of small conjugated molecules with solubilising side chains.

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8. (original): A device as claimed in claim 1, wherein the semiconducting region comprises organic-inorganic hybrid materials self-assembled from solution.

- 9. (original): A device as claimed in claim 1, wherein the semiconducting region comprises an inorganic semiconductor or nanowires.
- 10. (original): A device as claimed in claim 1, wherein the semiconducting region has a mobility exceeding 10^{-3} cm²/V.
- 11. (original): A device as claimed in claim 1, wherein the semiconductor region is substantially undoped.
- 12. (original): A device as claimed in claim 1, wherein the source and drain electrodes make ohmic contact with the semiconductor region.
- 13. (original): A device as claimed in claim 1, wherein the device has a layer that comprises the source and drain electrodes and a layer that comprises the semiconductor region.
- 14. (original): A device as claimed in claim 1, wherein said insulating region comprises a mesa structure of a dielectric material.
- 15. (original): A device as claimed in claim 1, wherein said insulating region comprises an air gap.
- 16. (original): A device as claimed in claim 1, comprising a gate dielectric layer between the gate electrode and the semiconducting region.
- 17. (original): A device as claimed in claim 1, wherein the shortest physical distance between the source and drain electrodes is less than one micrometre.
- 18. (currently amended): A method for forming a thin film transistor electronic switching device, the method comprising:

forming a source electrode and a drain electrode;

forming a semiconducting region in contact with and extending between the source and drain electrodes;

forming a gate electrode disposed for influencing the transconductance of at least part of the semiconducting region; and

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forming an insulating region located between the source and drain electrodes and configured so that the length of the shortest current path through the semiconducting region between the source and drain electrodes exceeds 1.05 times the shortest physical distance

between the source and drain electrodes,

wherein the shortest current path through the semiconducting region lies closer to the gate electrode than to all paths of the shortest physical distance between the source and drain electrodes.

19. (original): A method as claimed in claim 18, wherein the step of forming the

semiconducting region is performed after the step of forming the insulating region, the

semiconducting region is deposited from solution in contact with the insulating region and the

insulating region is capable of repelling the solution from which the semiconducting region is

deposited.

20. (original): A method as claimed in claim 19, wherein the insulating region

comprises a bulk portion of a first composition and a surface portion of a second composition on

to which is deposited the solution from which the semiconducting region is deposited, the

surface portion being capable of repelling that solution.

21. (original): A method as claimed in claim 18, wherein the thickness of the insulating

region is in the range from 30 to 80 nm.

22. (original): A method as claimed in claim 18, wherein the source and drain electrodes

are formed by inkjet printing.

23. (original): A method as claimed in claim 18, wherein the source and drain electrodes

are formed by a continuous film coating technique.

24. (original): A method as claimed in claim 18, wherein one or more components of the

device are deposited by vacuum deposition and patterned by photolithography.

25. (original): A method as claimed in claim 18, wherein one or more components of the

device are formed by electron beam lithography.

26. (original): A method as claimed in claim 18, wherein said insulating region is

defined by a lithographic patterning technique.

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27. (original): A method as claimed in claims 18, wherein said insulating region is

defined by embossing.

28. (original): A method as claimed in claim 18, wherein said insulating region is formed

by depositing an insulating material onto the substrate, wherein the insulating material preferably

deposits in the region between the source and drain electrodes, but not on top of the source-drain

electrodes.

29. (currently amended): A method for forming a thin film transistor electronic

switching device, the method comprising:

forming a source electrode and a drain electrode;

forming a semiconducting region in contact with and extending between the source and

drain electrodes;

forming a gate electrode disposed for influencing the transconductance of at least part of

the semiconducting region; and

forming an insulating region located between the source and drain electrodes and

configured so that the length of the shortest current path through the semiconducting region

between the source and drain electrodes exceeds 1.05 times the shortest physical distance

between the source and drain electrodes,

wherein said insulating region is formed by depositing an insulating material onto the

substrate, wherein the insulating material preferably deposits in the region between the source

and drain electrodes, but not on top of the source-drain electrodes, and

wherein said insulating material is deposited from a liquid phase, and

wherein the shortest current path through the semiconducting region lies closer to the

gate electrode than to all paths of the shortest physical distance between the source and drain

electrodes.

30. (original): A method as claimed in claim 28, wherein said insulating material is

deposited from a vapour phase.

31. and 32. (cancelled)

33. (currently amended): A thin film transistor electronic switching device, comprising:

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a source electrode and a drain electrode;

a semiconducting region in contact with and extending between the source and drain

electrodes;

a gate electrode disposed for influencing the transconductance of at least part of the

semiconducting region; and

an insulating region located between the source and drain electrodes and configured so

that the length of the shortest current path through the semiconducting region between the source

and drain electrodes is greater than the shortest physical distance between the source and drain

electrodes for the purpose of suppressing the off-current of the electronic switching device,

wherein the shortest current path through the semiconducting region lies closer to the

gate electrode than to all paths of the shortest physical distance between the source and drain

electrodes.

34. (currently amended): A thin film transistor electronic switching device, comprising:

a source electrode and a drain electrode;

a semiconducting region in contact with and extending between the source and drain

electrodes;

a gate electrode disposed for influencing the transconductance of at least part of the

semiconducting region; and

an insulating region located between the source and drain electrodes and configured so

that the length of the shortest current path through the semiconducting region between the source

and drain electrodes is greater than the shortest physical distance between the source and drain

electrodes;

wherein the shortest current path through the semiconducting region between the source

and drain electrodes is defined other than by etching the semiconducting region between the

source and drain electrodes, and

wherein the shortest current path through the semiconducting region lies closer to the

gate electrode than to all paths of the shortest physical distance between the source and drain

electrodes.

35. (currently amended): A method for forming a thin film transistor electronic

switching device, the method comprising:

forming a source electrode and a drain electrode;

forming a semiconducting region in contact with and extending between the source and drain electrodes;

forming a gate electrode disposed for influencing the transconductance of at least part of the semiconducting region; and

forming an insulating region located between the source and drain electrodes and configured so that the length of the shortest current path through the semiconducting region between the source and drain electrodes exceeds the shortest physical distance between the source and drain electrodes for the purpose of suppressing the off-current of the electronic switching device.

wherein the shortest current path through the semiconducting region lies closer to the gate electrode than to all paths of the shortest physical distance between the source and drain electrodes.

36. (currently amended): A method for forming a thin film transistor electronic switching device, the method comprising:

forming a source electrode and a drain electrode;

forming a semiconducting region in contact with and extending between the source and drain electrodes;

forming a gate electrode disposed for influencing the transconductance of at least part of the semiconducting region;

forming an insulating region located between the source and drain electrodes and configured so that the length of the shortest current path through the semiconducting region between the source and drain electrodes exceeds the shortest physical distance between the source and drain electrodes;

wherein the shortest current path through the semiconducting region between the source and drain electrodes is defined other than by etching the semiconducting region between the source and drain electrodes, and

wherein the shortest current path through the semiconducting region lies closer to the gate electrode than to all paths of the shortest physical distance between the source and drain electrodes.

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37. The method as claimed in claim 29, wherein the insulating material deposits in the region between the source and drain electrodes, but not on top of the source-drain electrodes.